

Name: _____

Carpentry

Directions:

Evaluate the student by entering the appropriate number to indicate the degree of competency.

Rating Scale (0-6):

- 0 No Exposure** – no experience/knowledge in this area; program/course did not provide instruction in this area
- 1 Unsuccessful Attempt** – unable to meet knowledge or performance criteria and/or required significant assistance
- 2 Partial Demonstration** – met some of the knowledge or performance criteria with or without minor assistance
- 3 Knowledge Demonstrated** – met knowledge criteria without assistance at least once
- 4 Performance Demonstrated** – met performance criteria without assistance at least once
- 5 Repetitive Demonstration** – met performance and/or knowledge criteria without assistance on multiple occasions
- 6 Mastered** – successfully applied knowledge or skills in this area to solve related problems independently

NOTE:

* = Core competencies (essential for the first day on the job).

0	1	2	3	4	5	6	A. Describe and safely interact with all carpentry systems, including equipment, tools, codes, first aids, and applied academic skills	Notes:
							*1. Demonstrate appropriate safety practices	
							2. Demonstrate knowledge of first-aid techniques	
							*3. Identify and use measuring and layout tools	
							*4. Identify proper use and care of power and hand tools	
							*5. Identify and use nails and fasteners	
							6. Use pneumatic tools safely	
							*7. Estimate linear measurement, area, and volume	
							8. Construct scaffolding according to local, state, and/or national legislation	
							9. Identify purposes of building codes, zoning laws, and building permits	
							Other:	

0	1	2	3	4	5	6	B. Demonstrate elements of construction planning	Notes:
							1. Read and interpret working drawings	
							2. Interpret blueprint symbols	
							*3. Identify the steps of the building process	
							4. Estimate material and labor costs	
							5. Identify grades of lumber and plywood	
							6. Interpret information from span chart	
							7. Practice techniques for quality control of construction material (e.g., slump and compaction tests)	
							8. Organize building materials	

								Other:	
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0	1	2	3	4	5	6	C. Prepare the building site consistent with industry and safety standards	Notes:
							*1. Establish level/grade using appropriate instrumentation	
							2. Lay out building	
							3. Identify resources for utility locate	
							Other:	

0	1	2	3	4	5	6	D. Build and install construction forms consistent with industry and safety standards	Notes:
							1. Construct footing forms	
							2. Install keyway for footing and foundation	
							3. Erect plywood panel or manufactured wall forms	
							4. Strip and clean forms	
							5. Lay out and install anchor bolts	
							6. Install bulkhead	
							7. Install expansion and contraction joint	
							8. Waterproof foundation	
							9. Install appropriate foundation drainage	
							10. Build and install forms/screeds for horizontal concrete (slab on grade)	
							Other:	

0	1	2	3	4	5	6	E. Layout and frame floor systems consistent with industry and safety standards	Notes:
							1. Install termite shield	
							*2. Install beam	
							*3. Install sill plate and sealer	
							*4. Lay out floor joist system	
							*5. Construct box sill	
							*6. Install floor joints or truss system	
							*7. Frame floor opening	
							*8. Install subfloor and underlayment	
							*9. Install cross-bridging or strongback	
							10. Lay out, cut, and install stringers	

								11. Install treads and risers	
								Other:	

0	1	2	3	4	5	6	F. Layout and frame wall systems consistent with industry and safety standards	Notes:
							*1. Lay out walls and framing members	
							*2. Construct corner post	
							*3. Construct stud partitions and walls	
							*4. Frame openings (load-bearing vs. non load-bearing)	
							*5. Install wind bracing	
							*6. Align and brace wall	
							*7. Install exterior wall sheathing	
							8. Install metal studs	
							Other:	

0	1	2	3	4	5	6	G. Layout and frame roof system consistent with industry and safety standards	Notes:
							1. Lay out ceiling joist system [
							2. Install ceiling joists	
							3. Lay out, cut and install common rafter systems	
							*4. Install roof	
							5. Construct gable roof system	
							6. Lay out, cut and install gable studs	
							*7. Apply roof sheathing	
							8. Frame roof openings	
							Other:	

0	1	2	3	4	5	6	H. Install roofing components consistent with industry and safety standards	Notes:
							*1. Install roofing felt	
							2. Apply proper ventilation techniques and weather tightness techniques	
							3. Install flashing (e.g., chimney, step, and valley)	
							*4. Install roof vent	
							5. Install drip cap	
							*6. Install composite shingle systems	

								7. Install ridge vent	
								Other:	

0	1	2	3	4	5	6	I. Install exterior finishes consistent with industry and safety standards	Notes:
							1. Install wood jamb window unit	
							2. Case exterior opening	
							3. Install pre-hung exterior door	
							4. Set metal window/door frames	
							5. Install drip cap over doors or windows	
							6. Install louvers/shutters	
							7. Install metal or vinyl siding	
							8. Install wood siding	
							9. Install metal or vinyl soffit/fascia	
							10. Install wood soffit/fascia	
							11. Install columns	
							12. Install storm doors and windows	
							13. Apply caulk and glazing compounds	
							14. Lay out, cut and install porches and decks	
							Other:	

0	1	2	3	4	5	6	J. Install interior finishes consistent with industry and safety standards	Notes:
							1. Install batt insulation	
							2. Install vapor barrier	
							3. Install interior door jambs and doors (e.g., pre-hung, double-acting, accordion, bypass, bifold, pocket)	
							*4. Install case and base trim	
							5. Install door hardware and accessories	
							*6. Hang drywall (gypsum) over wood or metal studs	
							7. Install wall paneling	
							8. Install closet, kitchen, and bathroom accessories	
							Other:	

0	1	2	3	4	5	6	K. Perform basic electrical procedures consistent with industry and safety standards (exploration)	Notes:
							*1. Demonstrate safe electrical working habits	
							2. Apply basic fundamentals of electricity, including national and local electrical codes	
							3. Apply proper wiring techniques	
							4. Install/route wiring and components	
							5. Install GFCIs (ground-fault circuit interrupters)	
							6. Install devices, fixtures, and appliances	
							Other:	

0	1	2	3	4	5	6	L. Perform basic concrete and masonry procedures consistent with industry and safety standards (exploration)	Notes:
							1. Identify characteristics of a mason and opportunities in the trade	
							2. Demonstrate proper installation and use of scaffolding	
							3. Identify and use appropriate hand/power tools	
							4. Identify and select appropriate masonry products	
							5. Practice proper anchoring and reinforcing procedures	
							6. Identify and select reinforcing materials	
							7. Identify components of chimneys, fireplaces, and wood-burning stoves	
							Other:	

0	1	2	3	4	5	6	M. Perform basic plumbing procedures consistent with industry and safety standards (exploration)	Notes:
							1. Safely operate fuel-air torch	
							2. Identify plumbing terminology (e.g., code applications)	
							3. Interpret a blueprint/plumbing layout	
							4. Identify and select appropriate plumbing materials	
							5. Identify and use appropriate hand and power tools	
							6. Locate and prepare for plumbing lines and fixtures	
							7. Install backing for fixtures	
							Other:	

0	1	2	3	4	5	6	N. Plan for HVAC systems consistent with industry and safety standards (exploration)	Notes:
							1. Describe general components of an HVAC system and how it functions (e.g., trunk lines for heat and return air, feeders, branch ducts, venting, power/fuel supply)	
							2. Locate and prepare for an HVAC system	
							Other:	

0	1	2	3	4	5	6	O. Demonstrate leadership skills in the classroom, industry, and society **	Notes:
							1. Demonstrate an understanding of VICA, its structure and activities	
							2. Demonstrate and understanding of one's personal values	
							3. Perform tasks related to effective personal management skills	
							4. Demonstrate interpersonal skills	
							5. Demonstrate etiquette and courtesy	
							6. Demonstrate effectiveness in oral and written communication	
							7. Develop and maintain a code of professional ethics	
							8. Maintain a good professional appearance	
							9. Perform basic tasks related to securing and terminating employment	
							10. Perform basic parliamentary procedures in a group meeting	
							Other:	

****NOTE:** These competencies are addressed in the Missouri SkillsUSA-VICA Curriculum Guide lessons

0	1	2	3	4	5	6	Explain and demonstrate skills in a specialization area identified by the instructor	Notes:
							1.	
							2.	
							3.	
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							10.	